# MONTHLY BULLETIN

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, LEBANON

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

**February 1948**

ROBERT W. SLOANE, DIRECTOR

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WEATHER BUREAU

# FEBRUARY 1948

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to O°C Sea level and 45° Latitude 700 mm. + ... | | | | Thermometer Degrees Centigrade | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8.30 | 14:30 | 20:30 | Mean | Max. | Min. | 8:30 | 14:30 | 20:30 | Mean |
| 1 | 67.7 | 64.9 | 63.8 | 65.5 | 18.3 | 13.4 | 15.5 | 17.6 | 13.8 | 15.6 |
| 2 | 59.9 | 57.2 | 58.8 | 58.6 | 19.8 | 11.3 | 17.7 | 19.4 | 17.2 | 18.1 |
| 3 | 61.4 | 61.1 | 63.3 | 61.9 | 17.2 | 11.7 | 13.9 | 16.6 | 14.3 | 14.9 |
| 4 | 3.4 | 1.9 | 1.2 | 2.2 | 17.4 | 12.6 | 15.4 | 16.7 | 15.1 | 15.7 |
| 5 | 0.2 | 59.9 | 1.3 | 0.5 | 18.5 | 11.6 | 14.9 | 18.0 | 11.7 | 14 9 |
| 6 | 63.1 | 62.2 | 62.5 | 62.6 | 17.4 | 12.2 | 14.9 | 16.6 | 13.9 | 15.1 |
| 7 | 2.6 | 0.9 | 1.0 | 1.5 | 17.0 | 10.9 | 14.4 | 16.6 | 14.4 | 15.1 |
| 8 | 1.9 | 59.9 | 58.4 | 0.1 | 17.3 | 10.3 | 12.7 | 16.9 | 15.8 | 15.1 |
| 9 | 55.1 | 4.7 | 6.5 | 55.4 | 15.6 | 10.1 | 11.4 | 13.8 | 14.7 | 13.3 |
| 10 | 61.1 | 61.1 | 9.6 | 60.6 | 17.1 | 11.9 | 15.5 | 16.6 | 12.7 | 14.9 |
| 11 | 59.0 | 58.8 | 56.1 | 58.0 | 18.6 | 14.1 | 14.6 | 17.9 | 15.1 | 15.9 |
| 12 | 3.9 | 4.4 | 6.1 | 4.8 | 17.5 | 10.1 | 17.2 | 15.5 | 11.7 | 14.8 |
| 13 | 5.4 | 5.0 | 6.8 | 5.7 | 16.1 | 11.9 | 12.7 | 8.3 | 10.7 | 10.6 |
| 14 | 8.0 | 7.4 | 6.8 | 7.4 | 15.0 | 10.2 | 11.1 | 13.2 | 12.4 | 12.2 |
| 15 | 5.7 | 3.2 | 4.4 | 4.4 | 17.6 | 7.9 | 10.9 | 16.1 | 10.6 | 12.5 |
| 16 | 49.1 | 51.7 | 54.8 | 51.9 | 17.5 | 7.8 | 11.6 | 9.6 | 9.4 | 10.2 |
| 17 | 57.7 | 8.1 | 60.1 | 8.6 | 17.6 | 7.9 | 9.5 | 11.8 | 10.2 | 10.5 |
| 18 | 9.6 | 8.3 | 58.2 | 8.7 | 17.3 | 12.8 | 14.0 | 17.0 | 15.5 | 15.5 |
| 19 | 61.9 | 62.8 | 64.9 | 63.2 | 17.0 | 12.0 | 14.7 | 16.6 | 12.8 | 14.7 |
| 20 | 6.1 | 4.6 | 4.4 | 5.0 | 18.4 | 12.7 | 15.5 | 17.8 | 15.5 | 16.3 |
| 21 | 65.2 | 64.6 | 64.7 | 64.8 | 18.3 | 13.3 | 15.7 | 17.8 | 15.6 | 16.4 |
| 22 | 4.2 | 3.2 | 4.1 | 3.8 | 17.9 | 11.3 | 15.5 | 16.6 | 14.1 | 15.4 |
| 23 | 4.9 | 4.0 | 4.7 | 4.5 | 17.4 | 11.7 | 14.9 | 16.7 | 13.5 | 15.0 |
| 24 | 3.8 | 5.3 | 6.0 | 5.0 | 18.8 | 12.3 | 14.9 | 18.0 | 13.9 | 15.6 |
| 25 | 3.7 | 0.6 | 59.8 | 1.4 | 20.2 | 14.4 | 15.2 | 18.9 | 18.8 | 17.6 |
| 26 | 61.4 | 62.0 | 62.8 | 62.1 | 17.7 | 12.3 | 14.5 | 16.6 | 13.6 | 14.9 |
| 27 | 2.2 | 1.4 | 1.5 | 1.7 | 16.3 | 7.7 | 15.0 | 15.6 | 9.9 | 13.5 |
| 28 | 3.8 | 3.8 | 5.5 | 4.4 | 9.9 | 2.7 | 7.7 | 8.3 | 3.8 | 6.6 |
| 29 | 6.7 | 7.4 | 8.7 | 7.6 | 12.6 | 7.8 | 8.8 | 10.9 | 9.9 | 9.9 |
| | 60.92 | 60.35 | 60.92 | 60.75 | 17.15 | 10.93 | 13.80 | 15.59 | 13.12 | 14.16 |

Barometer, range for month 768.7 — 749.1 mm.

,, 71-yr. average for month 761.982 mm.

Thermometer, range for month 20.2° — 2.7°C

,, 71-yr. average for month 14.29 °C.

Rain, total for month 283.47 mm.

,, 7-1r. average for month 157.75 mm.

,, Tolal, Sept. 1st. to end of month 847.10 mm.

71-yr. average, Sept. 1st. to end of month 722.30 mm.

# FEBRUARY 1948

## METEOROLOGICAL REGISTER

| Date | Pressure of Water Vapor Millibars | | | | Relative Humidity per cent. | | | | Sun. | Wind per day | Rain |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | Mean | Hrs. | Kms. | m.m. |
| 1 | 11.6 | 14.8 | 11.9 | 12.8 | 65 | 73 | 75 | 71 | 8.0 | 180.0 | |
| 2 | 10.8 | 14.6 | 13.2 | 12.9 | 54 | 64 | 66 | 61 | 6.8 | 322.0 | |
| 3 | 13.9 | 14.7 | 13.4 | 14.0 | 86 | 78 | 83 | 82 | 5.8 | 198.0 | 6.10 |
| 4 | 12.1 | 14.7 | 14.0 | 13.6 | 68 | 76 | 82 | 75 | 7.9 | 249.0 | |
| 5 | 13.0 | 14.8 | 12.8 | 13.5 | 76 | 74 | 92 | 81 | 4.8 | 203.0 | 3.30 |
| 6 | 13.5 | 15.7 | 13.9 | 14.4 | 79 | 84 | 88 | 84 | 4.6 | 274.0 | 3.30 |
| 7 | 13.4 | 14.7 | 13.4 | 13.8 | 82 | 80 | 83 | 82 | 3.0 | 167.0 | 0.25 |
| 8 | 13.3 | 14.2 | 13.1 | 13.5 | 93 | 73 | 71 | 79 | 6.0 | 914.0 | 22.6 |
| 9 | 11.8 | 13.9 | 14.0 | 13.2 | 90 | 86 | 82 | 86 | 3.0 | 1051.0 | 20.83 |
| 10 | 14.0 | 13.6 | 11.0 | 12.9 | 79 | 72 | 75 | 75 | 4.0 | 748.0 | 9.91 |
| 11 | 12.9 | 14.8 | 14.0 | 13.9 | 79 | 72 | 81 | 77 | 7.0 | 605.0 | 3.81 |
| 12 | 11.2 | 14.0 | 13.7 | 13.0 | 59 | 80 | 99 | 79 | 3.8 | 1022.0 | 19.05 |
| 13 | 11.4 | 11.0 | 12.3 | 11.6 | 48 | 98 | 96 | 81 | 2.1 | 708.0 | 49.78 |
| 14 | 12.3 | 12.9 | 10.1 | 11.8 | 91 | 84 | 70 | 82 | 4.7 | 797.0 | 12.44 |
| 15 | 11.8 | 12.1 | 12.7 | 12.2 | 90 | 65 | 99 | 85 | 0.9 | 608.0 | 10.16 |
| 16 | 12.8 | 11.0 | 11.0 | 11.6 | 93 | 92 | 94 | 93 | 0.7 | 1001.0 | 46.99 |
| 17 | 11.8 | 12.8 | 12.3 | 12.3 | 98 | 93 | 99 | 97 | 1.0 | 700.0 | 34.29 |
| 18 | 10.5 | 12.7 | 10.6 | 11.3 | 67 | 65 | 60 | 64 | 8.0 | 776.0 | 8.64 |
| 19 | 12.5 | 14.2 | 13.8 | 13.5 | 72 | 73 | 94 | 80 | 4.7 | 338.0 | 6.35 |
| 20 | 14.0 | 15.9 | 14.5 | 14.8 | 82 | 78 | 82 | 81 | 8.0 | 312.0 | |
| 21 | 15.0 | 15.9 | 14.5 | 15.1 | 85 | 78 | 81 | 81 | 9.8 | 129.0 | |
| 22 | 13.5 | 12.6 | 11.5 | 12.5 | 77 | 67 | 73 | 72 | 7.6 | 330.0 | |
| 23 | 13.0 | 11.6 | 11.4 | 12.0 | 76 | 61 | 74 | 70 | 5.9 | 298.0 | |
| 24 | 12.5 | 12.8 | 13.4 | 12.9 | 72 | 63 | 84 | 73 | 9.4 | 219.0 | |
| 25 | 13.0 | 16.1 | 11.9 | 13.6 | 76 | 73 | 54 | 68 | 3.4 | 356.0 | |
| 26 | 13.4 | 13.6 | 11.4 | 12.8 | 82 | 72 | 75 | 76 | 6.1 | 792.0 | |
| 27 | 13.5 | 12.5 | 12.3 | 12.8 | 79 | 71 | 99 | 83 | 1.2 | 966.0 | 4.32 |
| 28 | 9.7 | 7.3 | 8.1 | 8.4 | 91 | 65 | 98 | 85 | 2.0 | 687.0 | 4.83 |
| 29 | 8.0 | 9.2 | 8.8 | 8.7 | 69 | 69 | 72 | 70 | 4.9 | 644.0 | 16.51 |
| | 12.42 | 13.40 | 12.38 | 12.73 | 77.8 | 75.1 | 82.1 | 78.3 | 5.00 | 537.72 | 9.77 |

Height of Barometer above sea level: 337 meters.

,, ,, Thermometers above ground:

Dry and wet 1.55 m.; Max. 1.75 m.; Min. 1.70 m.

Rim of Rain Gauge: above-ground 0.56 m.; above sea level 30.31 m.

Time of reading minus 2 hours equal G.C.T.

71year averages are for period, 1875-1945

# FEBRUARY 1948

## METEOROLOGICAL REGISTER

| Date | Clouds Clear—0 Overcast—10 | | | | Direction and force of wind Beaufort scale | | | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | | |
| 1 | 0 | 0 | 0 | 0.0 | 1ne | 1nw | 1ne | slight | |
| 2 | 0 | 6ci | 10cu | 5.3 | 1s | 3ne | 5w | ,, | |
| 3 | 10cu | 1cu | 0 | 0.7 | 1s | 2nw | 1nw | light | |
| 4 | 0 | 0 | 0 | 0.0 | 1se | 1ne | 1ne | ,, | |
| 5 | 2cu | 5cu | 1cu | 2.7 | 1sw | 1sw | 2sw | ,, | |
| 6 | 9cu | 2cu | 10ni | 7.0 | 1se | 3sw | 3sw | slight | |
| 7 | 10cu | 10cu | 0 | 6.7 | 1sw | 2sw | 1sw | ,, | |
| 8 | 9cu-ni | 1ci | 6cu | 5.3 | 2w | 2sw | 3sw | mod. | |
| 9 | 10ni | 8ni | 8ni | 8.7 | 4w | 4w | 3sw | rough | |
| 10 | 7cu | 8cu | 6cu | 7.0 | 3w | 3sw | 1sw | ,, | |
| 11 | 5cu | 1cu | 0 | 2.0 | 2sw | 2sw | 1sw | mod. | |
| 12 | 10cu | 8ni | 10ni | 9.3 | 3sw | 4sw | 2sw | rough | |
| 13 | 10cu | 10ni | 10ni | 10.0 | 3sw | 4sw | 3sw | ,, | |
| 14 | 6cu | 10ni | 5cu | 7.0 | 3sw | 2sw | 2sw | mod | |
| 15 | 10cu-ni | 10cu | 10ni | 10.0 | 2sw | 2sw | 3sw | ,, | |
| 16 | 10ni | 10ni | 6ni | 8.7 | 5sw | 4sw | 4sw | rough | |
| 17 | 10ni | 10ni | 9ni | 9.7 | 2sw | 3sw | 2sw | ,, | |
| 18 | 3cu | 2cu | 5cu | 3.3 | 3sw | 3sw | 3sw | mod | |
| 19 | 8cu | 8cu | 1cu | 5.7 | 2sw | 1sw | 0 | slight | |
| 20 | 7ci | 8ci-cu | 7ci-cu | 7.3 | 0 | 2ne | 0 | ,, | |
| 21 | 1ci | 1ci | 4cu | 2.0 | 0 | 0 | 0 | slight | |
| 22 | 2cu | 5ci | 7cu-ci | 4.7 | 1ne | 1nw | 2nw | slight | |
| 23 | 3ci | 10ci | 1ci | 4.7 | 1s | 1ne | 1ne | light | |
| 24 | 0 | 0 | 8cu-ci | 2.7 | 1sw | 1sw | 1sw | slight | |
| 25 | 0 | 9cu | 10cu | 6.3 | 1se | 3sw | 2sw | ,, | |
| 26 | 10cu-ni | 4cu | 2cu | 5.3 | 2sw | 2sw | 1ne | slight | Traces a.m. |
| 27 | 10cu | 7cu | 8cu | 8.3 | 3sw | 4nw | 2sw | mod | W. at night |
| 28 | 5cu | 10cu-ni | 10ni | 8.3 | 4nw | 3nw | 1w | ,, | |
| 29 | 0 | 8cu | 7cu | 5.0 | 2sw | 3n | 2n | ,, | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| | | | | 5.64 | | | | | |

* Abbreviations :— G = gale; H = haze; M = mist ; T = thunderstorm ; D = dew.
W = strong wind; Tr = trace of rain

### Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm | Totals |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 0 | 2 | 0 | 3 | 3 | 15 | 3 | 1 | 2 | 29 |
| 14:30 | 1 | 4 | 0 | 0 | 0 | 17 | 1 | 5 | 1 | 29 |
| 20:30 | 1 | 4 | 0 | 0 | 0 | 17 | 2 | 2 | 3 | 29 |
| Total | 2 | 10 | 0 | 3 | 3 | 49 | 6 | 8 | 6 | 87 |

Number of days with rain 19, fog 0, thunderstorms 0, gale 0.

71 yr. av. number of days with rain during month 13.9